

GPH = 638.8 **CDL = 8.547**

BOAT

Class **First 34.7**
Designer **Farr**
Builder **Beneteau**
Age Date **05/2007**
Series Date **10/2005**
Offset File **FIRST347.off**

HULL

Length Overall **9.980 m**
Maximum Beam **3.372 m**
Draft **2.000 m**
Displacement **4,605 kg**
DLR **6.4132**
IMS Division **Cruiser/Racer**
Dynamic Allowance **0.207%**
Age Allowance **0.487%**

PROPELLER

Installation **Strut**
Type **Folding 2 blades**
Diameter **0.410m**

CREW

Maximum weight **640 kg**
Minimum weight **480 kg * when applied**
Non Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	33.45	34.17
Headsail Luffed	26.34	26.34
Headsail Flying		
Symmetric	84.84	84.84
Asymmetric	54.54	61.40

* 1 asymmetric(s) with SHW/SFL < 85%

SAIL LIMITATIONS

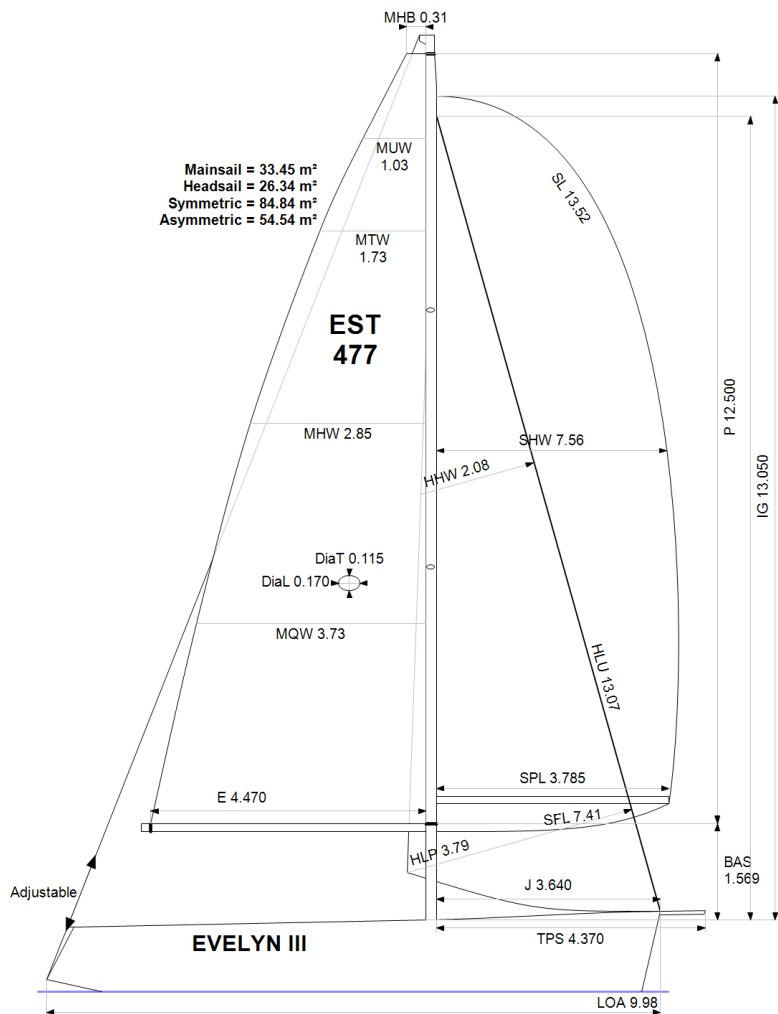
Headsails **5**
Spinnakers **4** * Asymmetric may be tacked on the pole

STABILITY

Righting Moment **100.5 kg·m**
Stability Index **126.6**

OWNER

The owner certifies that he/she understands his/her responsibilities under ORC Rule and Regulations.



Rated boat velocities in knots

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	43.1°	41.6°	41.3°	39.8°	39.0°	39.6°	39.8°
Beat VMG	3.27	3.94	4.48	4.82	4.94	4.98	5.03
52°	5.02	5.95	6.58	6.90	7.03	7.09	7.13
60°	5.32	6.26	6.79	7.07	7.23	7.30	7.32
75°	5.76	6.69	7.11	7.34	7.47	7.64	7.80
90°	5.97	6.85	7.26	7.59	7.88	8.08	8.32
110°	5.71	6.72	7.22	7.61	7.99	8.35	9.07
120°	5.45	6.59	7.15	7.56	8.00	8.45	9.24
135°	4.95	6.08	6.87	7.30	7.70	8.14	9.14
150°	4.16	5.22	6.20	6.89	7.29	7.65	8.49
Run VMG	3.61	4.52	5.37	6.09	6.69	7.13	7.85
Gybe Angles	145.5°	150.0°	150.0°	158.0°	180.0°	180.0°	180.0°

Time Allowances in secs/NM							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1101.1	914.3	804.3	746.7	728.5	722.4	716.2
52°	716.9	605.5	546.7	521.8	511.8	508.1	505.2
60°	676.5	575.5	530.4	509.2	497.9	493.2	491.5
75°	624.9	538.4	506.7	490.7	481.9	471.4	461.6
90°	603.1	525.5	495.7	474.2	456.7	445.8	432.6
110°	630.1	535.9	498.5	472.8	450.6	431.1	397.1
120°	660.2	546.5	503.2	476.2	449.9	426.2	389.4
135°	727.1	591.9	523.9	493.4	467.7	442.1	394.0
150°	864.6	689.1	581.1	522.3	494.1	470.4	424.0
Run VMG	998.4	795.8	671.0	591.5	537.9	504.7	458.5
Selected Courses							
Windward / Leeward	1049.7	855.0	737.6	669.1	633.2	613.6	587.4
All purpose	798.9	662.3	589.6	549.3	525.5	510.7	487.9

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	703.6	0.8528
All purpose	569.5	1.0536

Custom scoring options for Estonia

Single Number	Time On Distance	Time On Time
Coastal/Long Distance	622.4	0.9639
Triple Number Coastal/Long Distance Low	730.6	0.8212
Triple Number Coastal/Long Distance Medium	566.2	1.0597
Triple Number Coastal/Long Distance High	505.9	1.1860
Triple Number Windward/Leeward Low	952.4	0.6300
Triple Number Windward/Leeward Medium	698.5	0.8590
Triple Number Windward/Leeward High	608.6	0.9858

Performance Curve	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Coastal/Long Distance	1044.6	800.8	664.7	586.3	546.4	516.3	466.6



Data in meters/kilograms (Metric)

HULL AND APPENDAGES

Class	First 34.7	LOA	9.980	VCGD	-0.094
Measurement	02/06/2016	Max. Beam	3.372	VCGM	-0.079
Measurer		Draft	2.000	RM Measured (kg·m)	100.5
HIN		Displacement	4,605	RM Default (kg·m)	98.7
Plan review		Wetted area	22.09	Limit of positive stability(°)	127.0
Hull construction	Cored	IMS L	9.105	Stability Index	126.6
Carbon Rudder	No	LSM0	8.955		
Light stanchions		Acc. length	9.980		
Trim tab	No	Sink (kg/mm)	16.43		

PROPELLER

Propeller Type	Folding 2 blades	PRD	0.410	EDL	1.790	ST3	0.180
Installation	Strut	PBW		ST1	0.035	ST4	0.100
Twin screw	No			ST2	0.180	ST5	0.280
PIPA	0.0030						

RIG

Forestay tension	Aft	P	12.500	E	4.470
Inner stay	None Fitted	IG	13.050	J	3.640
Carbon mast	No	ISP	13.380	BAS	1.569
Headsail furler	No	MDT1	0.115	FSD	0.033
Mainsail furler	No	MDL1	0.170	SFJ	0.000
Articulated bowsprit	No	MDT2	0.115	SPL	3.785
Non-circular rigging	No	MDL2	0.143	TPS	4.370
Fiber rigging	No	TL	0.550	BD	0.130
Runners/Checkstays	0	MW	0.170	MWT	128.00
Spreaders	2	GO	0.192	MCG	4.650

FLOTATION AND STABILITY

Inclining Test	Poles Inclining	SFFP	0.172	SAFP	9.530	W1	60.5	PD1	499.6	WD	10.560
Flotation Date	26/09/2019	FFM	1.288	FAM	1.039	W2	60.5	PD2	499.1	PLM	9000.00
Measurer		FF	1.297	FA	1.046	W3	60.5	PD3	500.8	GSA	1.0
Comment	Pirita	LCFcl	5.375	LCFsh	5.612	W4	60.5	PD4	502.2	RSA	1.0
		SG	1.0000	HBI	1.162						

MEASUREMENT INVENTORY

Id	Tank Type	Capacity	LCG	VCG	Condition	Description
2	Fuel Plastic	60.0	7.55		5-0	Diesel fuel tank
1	water Plastic	100.0	4.00		0-0	Fresh water tank
Id	Item Description	Weight	LCG	VCG		
2	Battery 100ah		4.00			
1	Battery 75ah		3.65			
3	Miscellaneous Autopilot, portside	10.0	8.55			
2	Miscellaneous Shore Power Socket, starboard	10.0	8.00			
1	Miscellaneous Water heater Quick 25, portside	15.0	7.05			



MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Maker	Material	Comment
3	0.31	1.03	1.73	2.85	3.73	33.45		17/07/2021	North	Unknown	2020 P12.50; E4,47

HEADSAIL

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Btn	Flying	FT	Area	Measurer	Meas.Date	Maker	Material	Comment
4	0.10	0.61	1.12	2.08	2.97	3.79	13.07	No	No		26.34		18/04/2013	NorthSails	Carbon	
5b	0.12	0.64	1.18	2.11	2.97	3.77	12.95	Yes	No		26.33		17/07/2021	North	Unknown	2020 light
3b	0.11	0.59	1.11	2.04	2.95	3.74	12.74	Yes	No		25.36		17/07/2021	NorthSails	Carbon	Medium

SYMMETRIC SPINNAKER

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Maker	Material	Comment
7a	13.52	13.52	13.52	7.56	7.41	84.84		17/07/2021	North Sails	Unknown	S1.5
5a	13.26	13.26	13.26	6.87	6.53	75.16		19/06/2020	North Sails	Unknown	S2
6a	13.27	13.27	13.27	6.72	6.64	74.14		19/06/2020	North Sails	Unknown	S1,5
4a	13.22	13.22	13.22	6.62	6.53	72.73		19/06/2020	NorthSails	Unknown	S3 2012
3	12.98	12.98	12.98	6.62	6.60	71.56		14/04/2007		Unknown	hard

ASYMMETRIC SPINNAKER

Id	SLU	SLE	SL	SHW	SFL	Ratio	Area	Measurer	Meas.Date	Maker	Material	Comment
1a	13.27	11.95	12.61	4.87	6.47	75%	54.54		17/07/2021	NorthSails	Unknown	